Boeing Company
6633 Canoga Avenue
P.O. Box 7922
Canoga Park, CA 91309-7922

2000780

CERTIFIED MAIL

May 16, 2003
In reply refer to 2003RC01816

Gerard Abrams
Calif. Environmental Protection Agency
Dept. of Toxic Substances Control
Region 1
Facility Permitting Branch
8800 Cal Center Drive
Sacramento CA 95826-3200

Subject: Santa Susana Field Laboratory Corrective Action Program Quarterly Progress Reports for EPA ID Numbers CAD093365435 (Rocketdyne), CA1800090010 (NASA) and CAD000629972 (DOE)

Dear Mr. Abrams:

The Boeing Company, Rocketdyne (Rocketdyne) has enclosed the following progress reports as required by Hazardous Waste Facility Post-Closure Permits for Rocketdyne and NASA at the Santa Susana Field Laboratory (SSFL). In addition, Rocketdyne has included a progress report for the DOE Corrective Action sites in Area IV. Rocketdyne has submitted the reports in the format as it appears in Attachment I of the Rocketdyne and NASA permits. This reporting period is from February 16, 2003 through May 15, 2003.

Should you have any comments, please do not hesitate to let me know. I can be reached at (818) 586-5695.

Sincerely,

Art Lenox
Environmental Remediation

AJL:bjc
Enclosures

(SHEA-097531)

cc:

A. Elliott/NASA	(with enclosures)
D. Hambrick/MWH	(with enclosures)
L. Barrett/DTSC	(with enclosures)
S. Baxter/DTSC	(with enclosures)
P. Batarseh/DTSC	(with enclosures)
P. Bailey/DTSC	(with enclosures)
K. Baker/DTSC	(with enclosures)
M. Lopez/DOE/OAK	(with enclosures)
✓J. Beach/EPA	(with enclosures)
R. Marshall/CSUN, Oviatt Library	(with enclosures)
D. Redfield/Simi Valley Library	(with enclosures)
J. Metzler/LA Public Library, Platt Branch	(with enclosures)

BOEING

Santa Susana Field Laboratory
RFI and CMS Projects
Quarterly Progress Report
EPA ID No.CAD 093365435 (Rocketdyne)

Rocketdyne Project Manager:	Art Lenox
Contractor Project Manager:	Dixie Hambrick
Report Period:	February 16 – May 15, 2003

1. PROGRESS MADE THIS REPORT PERIOD

Soil and surface water sampling was performed during this period for the RCRA Facility Investigation (RFI). The majority of this field effort was for perchlorate characterization at and near the SSFL, and was performed in conjunction with DTSC. DTSC geologists selected sampling locations and collected split samples. In addition, limited soil sampling was performed at the Engineering Chemistry Laboratory (SWMU 6.1) site for RFI characterization. MWH collected a total of 50 soil matrix/surface water samples at 9 Rocketdyne sites during this reporting period (Table 1). Soil matrix and surface water sample analysis was conducted by Ceimic Laboratories, a California-certified laboratory located in Rhode Island. Surface water analysis for perchlorate was also conducted by Del Mar Analytical Laboratory, a California-certified laboratory located in Irvine. To date, approximately 1117 soil vapor (1204 analyses) and 2807 soil matrix/surface water samples (5885 analyses) have been collected from Rocketdyne locations during the RFI program (Table 2).

Field work for the near-surface groundwater investigation also was conducted this period. Two shallow piezometers were drilled and constructed at two Rocketdyne RFI sites. Site-wide water levels were measured and transducers installed at representative Rocketdyne shallow piezometer locations. Also, 28 near-surface groundwater samples were collected at and near Rocketdyne sites during this reporting period and analyzed at Ceimic Laboratories. To date, approximately 158 groundwater samples (263 analyses) have been collected from Rocketdyne locations during the RFI program (Table 2). Preparation of the Near-Surface Groundwater Characterization Report continued. This report will be comprehensive of the near-surface groundwater investigation findings at the SSFL.

A report regarding the spring and seep sampling results and findings was prepared and finalized.

Preparation of the draft B-1 Area (SWMU 4.1) and Instrument and Equipment Laboratories (SWMUs 4.3, 4.4) RFI reports continued.

DTSC, Rocketdyne, and MWH met several times this period to discuss the RFI near-surface groundwater and soil investigations, risk assessments, DTSC Hazardous

Materials Laboratory (HML) data validation of the RFI samples, preliminary draft RFI reports and the RFI report schedule.

Validation of recent soil and water samples and conducting a program quality assurance (QA) review of soil sampling data are ongoing.

2. SUMMARY OF FINDINGS

Perchlorate was detected in soil leachate and/or surface water samples collected at the Happy Valley (Area I AOC), Building 359 (Area I AOC), Compound A Facility (SWMU 6.4), and the Thermal Treatment Facility (SWMU 4.8) sites. These areas have been previously identified as known or suspected perchlorate use sites at the SSFL; perchlorate was not detected in all other samples at RFI sites or offsite.

Near-surface groundwater levels continued to rise during the Spring 2003 rainy season until May. Near-surface groundwater sampling results at the following Rocketdyne RFI sites were above regulatory action levels. These sampling results were similar to previous findings and will be summarized in the near-surface groundwater report.

- Instrument and Equipment Laboratories (SWMU 4.2/4.3): Volatile organic compounds (VOCs)
- Compound A Facility (SWMU 6.4): VOCs, 1,4-dioxane, metals (aluminum, antimony)
- STL-IV (SWMU 6.5): VOCs
- Happy Valley (Area I AOC): perchlorate

3/4 SUMMARY OF PROBLEMS/ACTIONS TAKEN

DTSC completed an independent evaluation of the Columbia Analytical Services (CAS) Laboratory RFI data (USEPA Method 8021).

5. PROJECT ACTIVITY NEXT PERIOD

Boeing will be involved with the following RFI activities during the next period:

- Continue data validation for Rocketdyne sites
- Complete near-surface groundwater sampling at Rocketdyne sites
- Continue to download transducer data at shallow piezometers
- Complete near-surface groundwater characterization report

- Finalize the draft Surficial OU SRAM, Revision 1
- Finalize the B-1 Area (SWMU 4.1) and IEL (SWMUs 4.3/4.4) RFI site reports
- Finalize the Area I Landfill Work Plan
- Revise Happy Valley (including Building 359 AOC) Interim Measure Work Plan for perchlorate removal action

6. PERSONNEL CHANGES

None.

7. SUMMARY OF CONTACTS

None.

8. TREATMENT SYSTEM EFFECTIVENESS

No soil remediation treatment systems are in place or operational at this time.

9. DATA REPORTS SUBMITTED

Spring and Seep Sampling and Analysis Report, Santa Susana Field Laboratory, Ventura County. March.

Table 1
Rocketdyne Sampling Summary
February 16, 2003 - May 15, 2003

UNIT	Facility	MATRIX	Total Samples	Total Analyses	VOA, 8260	TPH, 8015	SVOA, 8270SIM	Metals, 6010/7000	Lead	PH, 9040/9045	Perchlorate, 300M/314.0	1,4-Dioxane, 8260SIM
Area I AOC	Bldg 359 Sump	W	6	6	0	0	0	0	0	0	6	0
Area I AOC	Happy Valley	W	16	16	0	0	0	0	0	0	16	0
SWMU 4.3/4/AOC	Inst./Equip. Lab	W	1	2	0	0	0	0	1	0	1	0
SWMU 4.8	TTF	W	12	12	0	0	0	0	0	0	12	0
6.1/3/AOC	ECL	S	2	8	0	2	2	2	0	2	0	0
SWMU 6.4	Compound A	W	8	8	0	0	0	0	0	0	8	0
SWMU 6.5	STL-IV	W	2	2	0	0	0	0	0	0	2	0
SWMU 7.10	Bldg 5, PDU.	W	3	3	0	0	0	0	0	0	3	0
Area I, III, & IV	Various (26 wells)	GW	28	37	8	1	1	1	0	0	25	1
Total Soil		**S**	**2**	**8**	**0**	**2**	**2**	**2**	**0**	**2**	**0**	**0**
Total Water		**W**	**48**	**49**	**0**	**0**	**0**	**0**	**1**	**0**	**48**	**0**
Total Near-Surface Groundwater		**GW**	**28**	**37**	**8**	**1**	**1**	**1**	**0**	**0**	**25**	**1**
TOTAL			**78**	**94**	**8**	**3**	**3**	**3**	**1**	**2**	**73**	**1**

S = Soil
W = Water
V = Vapor by Method TO-14A
GW = Near-surface groundwater

Note - includes QA samples (water, soil, vapor); does not include samples on hold. Soil leachates are included as water samples.

Table 2
RFI Sampling Summary
May 1996 - May 15, 2003

RFI Soil Matrix Sampling Analysis Summary

OWNER/OPERATOR		Total Samples	Total Analyses	VOA, 8260	TPH, 8015	VOA, 8021A	SVOA, 8270SIM	SVOA, 8270	Metals, 6010/7000	Mercury, 7471A	Methyl Mercury	Silver, 7761	Lead	Beryllium	Hex Cr, 7196	Flouride, 340 2	ANIONS, 300	PH, 9040/9045	PCBs, 8080/8082	PCBs, 1668	Form, ASTMD19	Perchlorate, 300M/314 0	Tributyl Sn	Dioxin, 8290	Dioxin, 1613B	Hydrazine	Ordnance 8330	SPLP, 1312	Asbestos	LIPIDS	TOC	Arsenic	PAH, 8310	1 4-Dioxane 8260SIM	Gross Alpha/Beta, 900 0	Gamma Spec 901 1	Deuterium	Oxygen 18	TDS	PAH 429M
Rocketdyne		2807	5685	179	1094	646	648	92	924	59	3	10	3	2	84	175	184	739	121	18	193	303	2	120	10	14	130	78	0	2	8	1	2	11	5	5	5	5	5
NASA		759	1244	80	370	153	64	18	138	72	2	20	1	0	10	10	19	64	40	8	16	8	0	50	11	0	1	5	5	0	3	0	1	13	7	7	5	5	8	10
DOE		232	814	11	147	50	101	13	149	3	0	1	0	0	2	17	9	118	50	1	0	38	0	52	0	0	4	6	32	0	0	0	0	0	2	2	2	2	1	1
Total		3808	7943	270	1611	849	833	123	1211	134	5	31	4	2	96	202	212	921	211	27	209	349	2	222	21	14	135	89	37	2	11	1	3	24	14	14	12	12	14	16

Notes
Soil, water only - no vapor
No Task 203 samples (LUFT)
No Bell Canyon samples
Includes all Ogden/MWH samples at RFI sites - June 96 thru present
No Eco Samples
No background samples
No samples on hold

RFI Soil Vapor Sampling Analysis Summary

OWNER/OPERATOR	Total Active SV Samples	Total Dilutions	Total Active SV Analyses	Total PSV Samp/Anal	Total SV Samples	Total SV Analyses
Rocketdyne	1109	102	1198	8	1117	1206
NASA	387	19	398	14	401	412
DOE	46	0	46	0	46	46
Total	1542	121	1642	22	1564	1664

Notes
Includes HGS, CAL analyses (no TEG)
Includes all Ogden/MWH samples at RFI sites - June 96 thru present
Includes Gore analyses, no dilutions required
Four Active SV analyses performed by Method TO-14A, all remaining analyses performed by Method 8260, modified for vapor

RFI Biotic Sampling Analysis Summary

OWNER/OPERATOR		Total Samples	Total Analyses	SVOC, 8270CSIM	Metals, 6010B/7471A	PCBs, 1668	Dioxin, 1613B	LIPIDS
Rocketdyne		20	42	8	0	12	2	20
NASA		25	87	12	24	13	13	25
DOE		0	0	0	0	0	0	0
Total		45	129	20	24	25	15	45

Notes
Includes all Ogden/MWH samples at RFI sites - June 96 thru present

RFI Near-Surface Groundwater Sampling Analysis Summary

OWNER/OPERATOR		Total Samples	Total Analyses	VOA, 8260	TPH, 8015	SVOA, 8270SIM	Metals, 6010/7000	Arsenic	PCBs, 8082	Perchlorate, 300M	1-4 Dioxane, 8260SIM	Dioxin, 8290	Gross Alpha/Beta, 900 0	Gamma Spec, 901 1	Tritium, 906 0	Nitrate	TDS	Ordnance, 8330	Hex Cr, 7196
Rocketdyne		158	263	121	18	18	17	3	6	41	19	6	6	1	1	0	0	5	1
NASA		65	111	58	17	10	8	0	0	6	9	2	1	0	0	1	1	0	0
DOE		42	150	32	17	13	15	0	1	6	0	0	22	22	22	0	0	0	0
Total		265	524	209	52	41	40	3	7	53	28	8	29	23	23	1	1	5	1

Notes
Includes all Ogden/MWH samples at RFI sites - June 96 thru present
Gross Alpha/Beta analyses from 2001 also included on table

Santa Susana Field Laboratory
RFI and CMS Projects
Quarterly Progress Report
EPA ID No. CA1800090010 (NASA)

Rocketdyne Project Manager:	Art Lenox
Contractor Project Manager:	Dixie Hambrick
Report Period:	February 16 – May 15, 2003

1. PROGRESS MADE THIS REPORT PERIOD

Limited surface water sampling was performed during this period for the RCRA Facility Investigation (RFI). This sampling was performed at the Area II Landfill (SWMU 5.1) in conjunction with DTSC, who selected sampling locations and collected split samples. MWH collected 1 surface water sample at this NASA site during this reporting period (Table 1). Surface water sample analysis was conducted by Del Mar Analytical Laboratory, a California-certified laboratory located in Irvine. To date, approximately 401 soil vapor (412 analyses) and 769 soil matrix/surface water samples (1244 analyses) have been collected from NASA locations during the RFI program (Table 2).

Field work for the near-surface groundwater investigation also was conducted this period. Two shallow piezometers were drilled and constructed at two NASA RFI sites. Site-wide water levels were measured and transducers installed at representative NASA shallow piezometer locations. Also, 12 near-surface groundwater samples were collected at and near DOE sites during this reporting period and analyzed at Ceimic Laboratories, a California-certified laboratory located in Rhode Island. To date, approximately 65 groundwater samples (111 analyses) have been collected from NASA locations during the RFI program (Table 2). Preparation of the Near-Surface Groundwater Characterization Report continued. This report will be comprehensive of the near-surface groundwater investigation findings at the SSFL.

A report regarding the spring and seep sampling results and findings was prepared and finalized.

DTSC, Rocketdyne, and MWH met several times this period to discuss the RFI near-surface groundwater and soil investigations, risk assessments, DTSC Hazardous Materials Laboratory (HML) data validation of the RFI samples, preliminary draft RFI reports and the RFI report schedule.

Validation of recent soil and water samples and conducting a program quality assurance (QA) review of soil sampling data are ongoing.

2. SUMMARY OF FINDINGS

Lead was not detected in the surface water sample collected at the Area II Landfill (SWMU 5.2) site. Near-surface groundwater levels continued to rise during the Spring 2003 rainy season until May. Near-surface groundwater sampling results at the following NASA RFI sites were above regulatory action levels. These sampling results were similar to previous findings and will be summarized in the near-surface groundwater report.

- Storable Propellant Area (SPA, Area II AOC): 1,4-dioxane
- Delta Test Area (SWMU 5.23): bis-2-ethylhexyl-phthalate

3/4 SUMMARY OF PROBLEMS/ACTIONS TAKEN

DTSC completed an independent evaluation of the Columbia Analytical Services (CAS) Laboratory RFI data (USEPA Method 8021).

5. PROJECT ACTIVITY NEXT PERIOD

Boeing will be involved with the following RFI activities during the next period:

- Continue data validation for NASA sites
- Continue to download transducer data at shallow piezometers
- Complete near-surface groundwater sampling at NASA sites
- Complete preparation of the near-surface groundwater characterization report
- Finalize the draft Surficial OU SRAM, Revision 1
- Finalize the ABFF (Area II AOC) RFI site report
- Prepare and finalize the Area II Landfill Work Plan

6. PERSONNEL CHANGES

None.

7. SUMMARY OF CONTACTS

None.

8. TREATMENT SYSTEM EFFECTIVENESS

No soil remediation treatment systems are in place or operational at this time.

9. DATA REPORTS SUBMITTED

Spring and Seep Sampling and Analysis Report, Santa Susana Field Laboratory, Ventura County. March.

Table 1
NASA Sampling Summary
February 16, 2003 - May 15, 2003

UNIT	Facility	MATRIX	Total Samples	Total Analyses	VOA, 8260	TPH, 8015	SVOA, 8270SIM	Metals, 6010/7000	Lead	Perchlorate, 300M/314.0	1,4-Dioxane, 8260SIM
SWMU 5.1	Area II Landfill	W	1	2	0	0	0	0	1	1	0
Area II & III	Various (8 wells)	GW	12	30	7	5	6	5	0	6	1
Total Water		**W**	**1**	**2**	**0**	**0**	**0**	**0**	**1**	**1**	**0**
Total Near-Surface Groundwater		**GW**	**12**	**30**	**7**	**5**	**6**	**5**	**0**	**6**	**1**
TOTAL			**13**	**32**	**7**	**5**	**6**	**5**	**1**	**7**	**1**
S = Soil	V = Vapor by Method TO-14A										
W = Water	GW = Near-Surface Groundwater										
Note - includes QA samples (water, soil, vapor); does not include samples on hold. Soil leachates are included as water samples.											

Table 2
RFI Sampling Summary
May 1996 - May 15, 2003

RFI Soil Matrix Sampling Analysis Summary

OWNER/OPERATOR		Total Samples	Total Analyses	VOA, 8260	TPH, 8015	VOA, 8021A	SVOA, 8270SIM	SVOA, 8270	Metals, 6010/7000	Mercury, 7471A	Methyl Mercury	Silver, 7761	Lead	Beryllium	Hex Cr, 7196	Flouride, 340.2	ANIONS, 300	PH, 9040/9045	PCBs, 8080/8082	PCBs, 1668	Perm, ASTMD19	Perchlorate, 300M/314.0	Tributyl Sn	Dioxin, 8290	Dioxin, 1613B	Hydrazine	Ordnance, 8330	SPLP, 1312	Asbestos	LIPIDS	TOC	Arsenic	PAH, 8310	1,4-Dioxane, 8260SIM	Gross Alpha/Beta, 900.0	Gamma Spec, 901.1	Deuterium	Oxygen 18	TDS	PAH, 429M
Rocketdyne		2807	5885	179	1094	646	648	92	924	59	3	10	3	2	84	175	184	739	121	18	193	303	2	120	10	14	130	78	0	2	8	1	2	11	5	5	5	5	5	5
NASA		769	1244	80	370	153	84	18	138	72	2	20	1	0	10	10	19	64	40	8	15	8	0	50	11	0	1	5	5	0	3	0	1	13	7	7	5	5	8	10
DOE		232	814	11	147	50	101	13	149	3	0	1	0	0	2	17	9	118	50	1	0	38	0	52	0	0	4	6	32	0	0	0	0	0	2	2	2	2	1	1
Total		3808	7943	270	1611	849	833	123	1211	134	5	31	4	2	96	202	212	921	211	27	209	349	2	222	21	14	135	89	37	2	11	1	3	24	14	14	12	12	14	16

Notes
Soil, water only - no vapor
No Task 203 samples (LUFT)
No Bell Canyon samples
Includes all Ogden/MWH samples at RFI sites - June 96 thru present
No Eco Samples
No background samples
No samples on hold

RFI Soil Vapor Sampling Analysis Summary

OWNER/OPERATOR	Total Active SV Samples	Total Dilutions	Total Active SV Analyses	Total PSV Samp/Anal	Total SV Samples	Total SV Analyses
Rocketdyne	1109	102	1198	8	1117	1206
NASA	367	19	398	14	401	412
DOE	46	0	46	0	46	46
Total	1542	121	1642	22	1564	1664

Notes
Includes HGS, CAL analyses (no TEG)
Includes all Ogden/MWH samples at RFI sites - June 96 thru present
Four Active SV analyses performed by Method TO-14A, all remaining analyses performed by Method 8260, modified for vapor
Includes Gore analyses, no dilutions required

RFI Biotic Sampling Analysis Summary

OWNER/OPERATOR		Total Samples	Total Analyses	SVOC, 8270CSIM	Metals, 6010B/7471A	PCBs, 1668	Dioxin, 1613B	LIPIDS
Rocketdyne		20	42	8	0	12	2	20
NASA		25	87	12	24	13	13	25
DOE		0	0	0	0	0	0	0
Total		45	129	20	24	25	15	45

Notes
Includes all Ogden/MWH samples at RFI sites - June 96 thru present

RFI Near-Surface Groundwater Sampling Analysis Summary

OWNER/OPERATOR		Total Samples	Total Analyses	VOA, 8260	TPH, 8015	SVOA, 8270SIM	Metals, 6010/7000	Arsenic	PCBs, 8082	Perchlorate, 300M	1-4 Dioxane, 8260SIM	Dioxin, 8290	Gross Alpha/Beta, 900.0	Gamma Spec, 901.1	Tritium, 906.0	Nitrate	TDS	Ordnance, 8330	Hex Cr, 7196
Rocketdyne		158	263	121	18	18	17	3	6	41	19	6	6	1	1	0	0	5	1
NASA		65	111	56	17	10	8	0	0	6	9	2	1	0	0	1	1	0	0
DOE		42	150	32	17	13	15	0	1	6	0	0	22	22	22	0	0	0	0
Total		265	524	209	52	41	40	3	7	53	28	8	29	23	23	1	1	5	1

Notes
Includes all Ogden/MWH samples at RFI sites - June 96 thru present
Gross Alpha/Beta analyses from 2001 also included on table

Santa Susana Field Laboratory
RFI and CMS Projects
Quarterly Progress Report
EPA ID No. CAD000629972 (Department of Energy)

Rocketdyne Project Manager:	Art Lenox
Contractor Project Manager:	Dixie Hambrick
Report Period:	February 16 – May 15, 2003

1. PROGRESS MADE THIS REPORT PERIOD

Limited surface water sampling was performed during this period for the RCRA Facility Investigation (RFI). This sampling was performed at the Former Sodium Disposal Facility (FSDF, SWMU 5.3) in conjunction with DTSC, who selected sampling locations and collected split samples. MWH collected 3 surface water samples at this DOE site during this reporting period (Table 1). Surface water sample analysis was conducted by Del Mar Analytical Laboratory, a California-certified laboratory located in Irvine. To date, approximately 46 soil vapor (46 analyses) and 232 soil matrix/surface water samples (814 analyses) have been collected from DOE locations during the RFI program (Table 2).

Field work for the near-surface groundwater investigation also was conducted this period. Four shallow piezometers were drilled and constructed at two DOE RFI sites. Site-wide water levels were measured and transducers installed at representative DOE shallow piezometer locations. Also, 15 near-surface groundwater samples were collected at and near DOE sites during this reporting period and analyzed at Ceimic Laboratories, a California-certified laboratory located in Rhode Island. To date, approximately 42 groundwater samples (150 analyses) have been collected from DOE locations during the RFI program (Table 2). Preparation of the Near-Surface Groundwater Characterization Report continued. This report will be comprehensive of the near-surface groundwater investigation findings at the SSFL.

A report regarding the spring and seep sampling results and findings was prepared and finalized.

Draft RFI site reports for three DOE sites were finalized and submitted to DTSC this period: Old Conservation Yard (SWMU 7.4), Building 100 Trench (SWMU 7.5), and Metals laboratory Clarifier (Area IV AOC).

DTSC, Rocketdyne, and MWH met several times this period to discuss the RFI near-surface groundwater and soil investigations, risk assessments, DTSC Hazardous Materials Laboratory (HML) data validation of the RFI samples, preliminary draft RFI reports and the RFI report schedule.

Validation of recent soil and water samples and conducting a program quality assurance (QA) review of soil sampling data are ongoing.

Infiltration monitoring continued at FSDF (SWMU 7.3) this period.

2. SUMMARY OF FINDINGS

Mercury and perchlorate were not detected in the surface water samples collected at the FSDF (SWMU 7.3) site. Near-surface groundwater levels continued to rise during the Spring 2003 rainy season until May. Near-surface groundwater sampling results at the following DOE RFI sites were above regulatory action levels. These sampling results were similar to previous findings and will be summarized in the near-surface groundwater report.

- FSDF (SWMU 7.3): Volatile organic compounds (VOCs), perchlorate
- HSMA (Area IV AOC): VOCs, metals (boron and antimony)

3/4 SUMMARY OF PROBLEMS/ACTIONS TAKEN

DTSC completed an independent evaluation of the Columbia Analytical Services (CAS) Laboratory RFI data (USEPA Method 8021).

5. PROJECT ACTIVITY NEXT PERIOD

Boeing will be involved with the following RFI activities during the next period:

- Continue data validation for DOE sites
- Continue to download transducer data at shallow piezometers
- Complete near-surface groundwater sampling at DOE sites
- Complete preparation of the near-surface groundwater characterization report
- Finalize the draft Surficial OU SRAM, Revision 1
- Prepare FSDF (SWMU 7.3) draft RFI site report
- Continue Infiltration Monitoring at FSDF
- Finalize the Building 56 Landfill Work Plan

6. PERSONNEL CHANGES

None.

7. SUMMARY OF CONTACTS

None.

8. TREATMENT SYSTEM EFFECTIVENESS

No soil remediation treatment systems are in place or operational at this time.

9. DATA REPORTS SUBMITTED

Spring and Seep Sampling and Analysis Report, Santa Susana Field Laboratory, Ventura County. March.

Old Conservation Yard (SWMU 7.4), RCRA Facility Investigation Report, Draft, Santa Susana Field Laboratory, Ventura County. February.

Building 100 Trench (SWMU 7.5), RCRA Facility Investigation Report, Draft, Santa Susana Field Laboratory, Ventura County. February.

Hazardous Materials Storage Area (Area IV AOC), RCRA Facility Investigation Report, Draft, Santa Susana Field Laboratory, Ventura County. February.

Table 1
DOE Sampling Summary
February 16, 2003 - May 15, 2003

UNIT	Facility	MATRIX	Total Samples	Total Analyses	VOA, 8260	TPH, 8015	SVOA, 8270SIM	Metals, 6010/7000	Mercury, 7471A	Perchlorate, 300M/314.0	Gross Alpha/Beta, 900.0	Gamma Spec, 901.1	Tritium, 906.0
SWMU 7.3	FSDF	W	3	6	0	0	0	0	3	3	0	0	0
Area IV	Various (7 wells)	GW	15	57	10	7	7	7	0	5	7	7	7
Total Water		**W**	**3**	**6**	**0**	**0**	**0**	**0**	**3**	**3**	**0**	**0**	**0**
Total Near-Surface Groundwater		**GW**	**15**	**57**	**10**	**7**	**7**	**7**	**0**	**5**	**7**	**7**	**7**
TOTAL			**18**	**63**	**10**	**7**	**7**	**7**	**3**	**8**	**7**	**7**	**7**
S = Soil	V = Vapor												
W = Water	GW = Near-Surface Groundwater												
Note - includes QA samples (water, soil, vapor); does not include samples on hold. Soil leachates are included as water samples.													

Table 2
RFI Sampling Summary
May 1996 - May 15, 2003

RFI Soil Matrix Sampling Analysis Summary

OWNER/OPERATOR	Total Samples	Total Analyses	VOA, 8260	TPH, 8015	VOA, 8021A	SVOA, 8270SIM	SVOA, 8270	Metals, 6010/7000	Mercury, 7471A	Methyl Mercury	Silver, 7761	Lead	Beryllium	Hex Cr, 7196	Fluoride, 340.2	ANIONS, 300	PH, 9040/9045	PCBs, 8080/8082	PCBs, 1668	Form, ASTMD19	Perchlorate, 300M/314.0	Tributyl Sn	Dioxin, 8290	Dioxin, 1613B	Hydrazine	Ordnance, 8330	SPLP, 1312	Asbestos	LIPIDS	TOC	Arsenic	PAH, 8310	1,4-Dioxane, 8260SIM	Gross Alpha/Beta, 900.0	Gamma Spec, 901.1	Deuterium	Oxygen 18	TDS	PAH, 429M
Rocketdyne	2807	5885	179	1094	646	648	92	924	59	3	10	3	2	84	175	184	739	121	18	193	303	2	120	10	14	130	78	0	2	8	1	2	11	5	5	5	5	5
NASA	769	1244	80	370	153	84	18	138	72	2	20	1	0	10	10	19	64	40	8	16	8	0	50	11	0	1	5	5	0	3	0	1	13	7	7	5	5	8	10
DOE	232	814	11	147	50	101	13	149	3	0	1	0	0	2	17	9	118	50	1	0	38	0	52	0	0	4	6	32	0	0	0	0	0	2	2	2	2	1	1
Total	3808	7943	270	1611	849	833	123	1211	134	5	31	4	2	96	202	212	921	211	27	209	349	2	222	21	14	135	89	37	2	11	1	3	24	14	14	12	12	14	16

Notes:
Soil, water only - no vapor
No Task 203 samples (LUFT)
No Bell Canyon samples
Includes all Ogden/MWH samples at RFI sites - June 96 thru present
No Eco Samples
No background samples
No samples on hold

RFI Soil Vapor Sampling Analysis Summary

OWNER/OPERATOR	Total Active SV Samples	Total Dilutions	Total Active SV Analyses	Total PSV Samp/Anal	Total SV Samples	Total SV Analyses
Rocketdyne	1109	102	1198	8	1117	1206
NASA	387	19	398	14	401	412
DOE	46	0	46	0	46	46
Total	1542	121	1642	22	1564	1664

Notes:
Includes HGS, CAL analyses (no TEG)
Includes all Ogden/MWH samples at RFI sites - June 96 thru present
Four Active SV analyses performed by Method TO-14A, all remaining analyses performed by Method 8260, modified for vapor
Includes Gore analyses, no dilutions required

RFI Biotic Sampling Analysis Summary

OWNER/OPERATOR	Total Samples	Total Analyses	SVOC, 8270CSIM	Metals, 6010B/7471A	PCBs, 1668	Dioxin, 1613B	LIPIDS
Rocketdyne	20	42	8	0	12	2	20
NASA	25	87	12	24	13	13	25
DOE	0	0	0	0	0	0	0
Total	45	129	20	24	25	15	45

Notes:
Includes all Ogden/MWH samples at RFI sites - June 96 thru present

RFI Near-Surface Groundwater Sampling Analysis Summary

OWNER/OPERATOR	Total Samples	Total Analyses	VOA, 8260	TPH, 8015	SVOA, 8270SIM	Metals, 6010/7000	Arsenic	PCBs, 8082	Perchlorate, 300M	1-4 Dioxane, 8260SIM	Dioxin, 8290	Gross Alpha/Beta, 900.0	Gamma Spec, 901.1	Tritium, 906.0	Nitrate	TDS	Ordnance, 8330	Hex Cr, 7196
Rocketdyne	158	263	121	18	18	17	3	6	41	19	6	6	1	1	0	0	5	1
NASA	65	111	58	17	10	8	0	0	6	9	2	1	0	0	1	1	0	0
DOE	42	150	32	17	13	15	0	1	6	0	0	22	22	22	0	0	0	0
Total	265	524	209	52	41	40	3	7	53	28	8	29	23	23	1	1	5	1

Notes:
Includes all Ogden/MWH samples at RFI sites - June 96 thru present
Gross Alpha/Beta analyses from 2001 also included on table.